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Calgon Corporation Post Office Box 1346 Fittsburgh, Pennsylvania 15230

Attention: Mr. C. L. Fitzgerald

H-204 MICROBIOCIDE USDA Reg. No. 2914-8 Your letter of April 23, 1968

1. The dosage under intermittant treatment must be corrected as 16.5 to 66 fluid ounces per 1000 gallons does not equal 25 to 100 ppm of product.

Sincerely yours,

Harold G. Alford Assistant Director

for Registration

Enclosure Stamped Label PR Form 9-26

ARS: PR: HSH: ibf/6/21/68

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WARNING!

May be fatal if swallowed May be absorbed through skin Causes skin irritation

Do not get on skin, in eyes or on clothing. In case of contact, remove contaminated clothing and immediately wash skin with soap and water. If irritation persists get medical attention. In case of contact with eyes, immediately flush with water and get medical attention. Wash contaminated clothing before rouse.

Treated water may be harmful to fish and other aquatic life.

U.S.D.A. Registration No. 2914-8



MICROBIOCIDE

FOR CONTROL OF BACTERIA, ALGAE, DIATOMS, MOLD AND SLIME GROWTHS IN INDUSTRIAL WATER SYSTEMS

CAUTION: KEEP OUT OF REACH OF CHILDREN

See panel at left for additional cautions

Net Wt. 435 Lbs.

DIRECTIONS FOR USE

SEE H-204 MICROBIOCIDE CHI MICAL
PRODUCT BULLETIN

ACCEPTED

JUN 2 1 1968

UNDER THE PEDEMAL INSECTICIDE FUNCICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REGISTERED UNDER MORP. MALE SUBJECT TO ATTACHED COMMENTS.

10445-4

Made in U.S.A.

in (2(0)4).

CALCON CORPORATION
CARDON CENTER - PITTSBURGH, PA.



BUTTELIN 344 GIEWICAT GATCOSI

24/4-1

description

H-204 Microbiocide is a pale yellow, liquid, organic biocide containing both quaternaries and organo-metallic compounds formulated for use in industrial water systems.

purpose

II-204 prevents growths of microorganisms encountered in nonpotable, industrial water systems. It also forms a biocidal film, resistant to water leaching, on wood and metal surfaces in the system, thus providing residual treatment for considerable lengths of time.

advantages

- 1. Non-oxidizing; safe for cooling tower wood.
- 2. Non-corrosive to metals; contains no copper or mercury salts.
- 3. Helps protect cooling tower wood from fungus attack.
- 4. Non-flammable.
- 5. Compatible with other treatments.
- 6. Maximum biocidal efficiency for a wide spectrum of organisms.
- 7. Surface-active properties aid in cleaning system.

ifeed requirements

For continuous accoming, 5 to 15 ppm of product is recommended. Feed at a rate of 0.63 to 2.0 fluid ounces per thousand gallons of make—water.

feed: tractiment requires 25 to 100 ppm of product. Slug feed: trate of 1.5 to 66 fluid ounces per thousand gallons of systematic volume.

mumbed of feeding

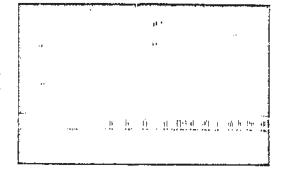
H-20° hould be fed as received and not alluted with water or mix the any other chemical feed solution. It can form potential dosive materials when mixed with strong exidizing agents such lorine.

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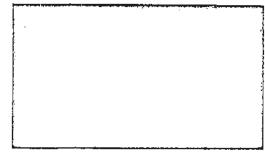
No control testing is necessary other than visual or microscopic examination of growths.

specifications

ance	pale yellow liquid
	pungent
vity	
r gallon	
TOC	
solution	7.6
	19 cps @ 25° C.
4 3 2 2 4	



Redwood cooling tower slat showing severe chemical surface attack (delignification) caused by excessive chlorine used to combat bacteria and algae. H-204 Microbiocide, chemically inert toward wood, will not cause this problem. In fact, it can penetrate the wood subsurface to kill organisms growing there without damaging the wood itself.



Unless checked by proper treatment, thick slimy accumulations of algae can form on water distribution pans. These growths also clog screens and strainers, slow down the water flow, reduce heat transfer, and cause high head pressure.

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Microscopic organisms breed rapidly is upon recirculating water systems and impair the efficient operation of cooling towers. Sunlight warm water, oxygen and nutrients of air-borne or process origin can stimulate prolific growths or algae, molo, automs or bacteria in the absence

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storage

Store out of children's reach. Do not transfer H-204 from original container except for immediate use. H-204 is stable at room temperature. Some crystals may form when stored at temperatures below 31° F., but rewarming will return it to original condition with biocidal properties unimpaired.

2914-8

packaging

Available in 5 gallon can 40 lbs. net, and in 55 gallon non-returnable steel drums, 435 lbs. net. Freight classification: Disinfectants, other than medicinal and other toilet preparations.

Micrograph (430x) showing strands of *Ulothrix*, a green algae. Heavy growths of these simple aquatic plants can plug heat exchangers, pump strainers, lines and valves and coat wooden slats of cooling towers.

ACCEPTED

JUN 2 1 1968

UNDER THE FEDERAL INSECTICIDE PUNGICIDE AND RODENTICIDE ACT FOR ECONOMIC POISON REG STERED UNDER NO. 244-7 SUBJECT TO ATTACHED COMMENTS.

10445

For further information write to Cooling and Municipal Water Department, Water Management Division, Calgon Corporation, Box 1346, Pittsburgh, Pa. 15232

